

Taxon	Distribution of palatal dentition					Palatal tooth arrangements				References
	vomer	palatine	pterygoid	parasphenoid	ectopterygoid	shagreen	parallel to the jaw margin	longitudinal tooth row	posterior transverse flange tooth row	
<b>Captorhinidae</b>										
<i>Captorhinus</i>	-**	x	x	x/-	-	-	-	x	x	Warren, 1961; Fox & Bowman, 1966; Modesto, 1998
<i>Labidosaurus</i>	-	x	x	-	-	-	-	x	x	Modesto et al. 2007
<i>Paleothyris</i>	-	x	x	x	?	-	-	x	x	Carroll, 1969
<i>Petrolacosaurus</i>	x	x	x	x	-	-	-	x	x	Reisz, 1981
<b>Araeoscelidia</b>										
<i>Araeoscelis</i>	?	?	x	-	x	-	-	x	x	Vaughn, 1955
<i>Claudiosaurus</i>	x	x	x	-	-	x	-	-	-	Carroll, 1981
<i>Orovenator</i>	?	x	x	x	?	-	-	x	x	Reisz et al. 2011
<b>Younginiformes</b>										
<i>Youngina</i>	x	x	x	-	-	-	-	x	x	Gow, 1975; Carroll, 1981
<b>Ichthyopterygia</b>										
<i>Utatsusaurus</i>	-	-	x(?)	-	-	-	-	x(?)	-	Motani, 1999
<b>Sauropsidia</b>										
<i>Simosaurus</i>	-	-	-	-	-	-	-	-	-	Rieppel, 1994
<i>Nothosaurus</i>	-	-	-	-	-	-	-	-	-	Albers & Rieppel, 2003
<b>Placodontia</b>										
<i>Placodus</i>	-	x	-	-	-	-	-	x	-	Carroll, 1988
<b>Thalattosauria</b>										
<i>Thalattosaurus</i>	x	-	x	-	-	-	-	x	-	Müller, 2007
<i>Endennasaurus</i>	-	-	-	-	-	-	-	-	-	Müller, 2007
<i>Askeptosaurus</i>	-	-	-	-	-	-	-	-	-	Müller, 2007
<b>Stem-Lepidosauria</b>										
<i>Kuehneosaurus</i>	?	x	x	x	-	x	-	x	x	Robinson, 1962
<i>Marmoretta</i>	?	x	x	-	-	-	-	x	-	Evans, 1991
<b>Gekkota</b>	-	-	-	-	-	-	-	-	-	Mahler & Kearney, 2006; Evans, 2008
<b>Scincoidea</b>										
<i>Eumeces</i>	-	-	x	-	-	-	-	x*	-	Mahler & Kearney, 2006
<b>Lacertoidea</b>										
<i>Lacerta</i>	-	-	x/-	-	-	-	-	x*	-	Mahler & Kearney, 2006; Evans, 2008
<b>Pleurodont Iguania</b>										
<i>Ctenosaura</i>	-	-	x	-	-	-	-	x*	-	Mahler & Kearney, 2006; Evans, 2008
<b>Acrodont Iguania</b>										
<i>Uromastyx</i>	-	-	-	-	-	-	-	-	-	Evans, 2008
<b>Xenosauridae</b>										
<b>Anguidae</b>										
<i>Ophisaurus</i>	x/-	x	x	-	-	-	-	x	-	Mahler & Kearney, 2006; Evans, 2008
<b>Helodermatidae</b>										
<i>Heloderma</i>	-	x/-	x/-	-	-	-	-	x*	-	Mahler & Kearney, 2006; Evans, 2008
<b>Shinisauria</b>										
<i>Shinisaurus</i>	-	-	x	-	-	-	-	x	-	Mahler & Kearney, 2006
<b>Varanidae</b>										
<i>Lanthanotus</i>	-	x	x	-	-	-	-	x	-	Mahler & Kearney, 2006; Evans, 2008
<b>Mosasauridae</b>										
<i>Platecarpus</i>	-	-	x	-	-	-	-	x	-	Romer, 1956
<b>Serpentes</b>										
<i>Anilius</i>	-	x	x	-	-	-	-	x	-	Mahler & Kearney, 2006; Evans, 2008
<b>Rhynchocephalia</b>										
<i>Priosphenodon</i>	-	x	-	-	-	-	x	-	-	Apesteguia & Novas, 2003; Apesteguia & Carballido 2014
<i>Palaeopleurosaurus</i>	?	x	-	-	-	-	-	x	-	Carroll & Wild, 1994
<i>Pleurosaurus</i>	-	x	-	-	-	-	x	-	-	Carroll & Wild, 1994
<i>Gephyrosaurus</i>	x	x	x	-	-	-	-	x	-	Evans, 1980

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<b>Rhynchocephalia</b>										
<i>Clevosaurus</i>	x	x	x	-	-	-	-	x	-	Jones, 2006; Bonaparte & Sues, 2006
<i>Sphenodon</i>	-	x	-	-	-	-	x	-	-	Romer, 1956; Jones et al. 2012
<i>Sphenotitan</i>	?	x	x	-	-	-	x	x	-	Martínez et al. 2013
<b>Basal Archosauromorpha</b>										
<i>Protorosaurus</i>	x	x	x	-	?	-	-	x	-	Seeley, 1887
<i>Czatkowiella</i>	x	x	x	-	?	-	-	x	-	Borsuk-Bialynicka & Evans, 2009a
<b>Choristodera</b>										
<i>Cteniogenys</i>	?	x	x	-	-	-	-	x	x	Evans, 1990
<i>Monjurosuchus</i>	x	x	x	?	?	-	-	x	?	
<i>Hyphalosaurus</i>	x	x	x	?	?	-	-	x	?	Brinkman & Dong, 1993; Matsumoto & Evans, 2015;
<i>Ikechosaurus</i>	x	x	x	x	-	x	-	x	x	Sigogneau-Russell & Russell, 1978
<i>Tchoiria</i>	x	x	x	-	-	-	-	x	x	
<i>Champsosaurus</i>	x	x	x	-	-	-	-	x	x	
<i>Simoeodosaurus</i>	x	x	x	-	-	x	-	x	x	
<b>Testudines</b>										
<i>Proganochelys</i>	x	x	x	-	-	-	-	x	-	Gaffney, 1990; Kordikova, 2002
<i>Odontochelys</i>	x	?	x	?	?	-	-	x	-	Li et al. 2008
<b>Rhynchosauria</b>										
<i>Mesosuchus</i>	x	x	x	-	-	-	-	x	-	Dilkes, 1998
<i>Howesia</i>	?	x	x	-	?	-	-	x	-	Dilkes, 1998
<b>Rhynchosauridae</b>										
<i>Hyperodapedon</i>	-	-	-	-	-	-	-	-	-	Langer & Schultz, 2000
<b>Trilophosauria</b>										
<i>Trilophosaurus</i>	-	-	-	-	-	-	-	-	-	Carroll, 1988; Spielmann et al. 2008
<i>Tanystropheus</i>	x	-	-	-	-	-	x	-	-	Wild, 1973
<i>Prolacerta</i>	x	x	x	-	-	-	-	x	x	Gow, 1975
<b>Proterosuchia</b>										
<i>Proterosuchus</i>	x	x	x	-	-	-	-	x	x	Dilkes & Sues, 2009
<i>Osmolskina</i>	?	x	x	-	-	-	-	x	-	Borsuk-Bialynicka & Evans, 2009b
<i>Euparkeria</i>	-	x	x	-	-	-	-	x	-	Ewer, 1965
<b>Erythrosuchia</b>										
<i>Vjushkovia</i>	-	-	-	-	-	-	-	-	-	Kuhn, 1976
<i>Doswellia kaltenbachi</i>	?	?	x	-	-	-	-	x	-	Weems, 1980
<i>Turfanosuchus</i>	?	-	x	-	-	-	-	x	-	Dilkes & Sues, 2009
<i>Yonghesuchus</i>	?	?	x	-	-	-	-	x	-	Dilkes & Sues, 2009
<i>Qianosuchus</i>	-	-	-	-	-	-	-	-	-	Dilkes & Sues, 2009
<b>Proterochampsia</b>										
<i>Proterochampsia</i>	?	?	x	-	-	-	-	x	-	Sill, 1967
<b>Phytosauria</b>										
<i>Rutiodon</i>	-	-	-	-	-	-	-	-	-	Kuhn, 1976
<b>Aetosauria</b>										
<i>Stagonolepis</i>	-	-	-	-	-	-	-	-	-	Kuhn, 1976
<b>Crocodylomorpha</b>										
<i>Sphenosuchus</i>	-	-	-	-	-	-	-	-	-	Walker, 1990
<b>Ornithosuchidae</b>										
<i>Ornithosuchus</i>	-	-	-	-	-	-	-	-	-	Kuhn, 1976
<b>Rauisuchia</b>										
<i>Saurosuchus</i>	-	-	-	-	-	-	-	-	-	Kuhn, 1976
<b>Poposauroidea</b>										
<i>Lagosuchus</i>	-	-	-	-	-	-	-	-	-	Kuhn, 1976
<b>Pterosauria</b>										
<i>Eudimorphodon</i>	?	?	x	-	-	-	-	x	-	Wild, 1978
<b>Non-avian dinosaurs</b>										
<i>Eoraptor</i>	?	?	x	?	-	-	-	x	-	Sereno et al. 2012
<i>Eodromaeus</i>	?	?	x	?	-	-	-	x	-	Martinez et al. 2011
<b>Avialae</b>										
(Palatal view unknown in <i>Archaeopteryx</i> )	?	?	?	?	?	?	?	?	?	

Note

\*: restricted to small area

\*\*: Warren (1961) recorded sporadic vomerine teeth in *Captorhinus* sp., but Fox & Bowman (1966) recorded them as absent.